

CLAIM AMENDMENTS:

1. (original). A zero-valent metal emulsion comprising:

- a) a plurality of zero-valent metal particles;
- b) a surfactant;
- c) an oil; and
- d) water.

Claim 2-26 (canceled)

27 (new). An emulsion comprising, an oil-in-water emulsion stabilized by a surfactant, said emulsion further including a plurality of zero-valent metal particles.

28 (new). The emulsion of claim 27, wherein said plurality of zero-valent metal particles is a plurality of zero-valent iron particles.

29 (new). The emulsion of claim 27, wherein said surfactant is selected from the group consisting of sodium sulfocinate, sorbitan sesquioleate, sorbitan monooleate, sorbitan trioleate, sodium dodecylbenzene sulfonate, sodium naphthalene sulfonate, sodium lauryl sulfate, sorbitan monostearate, polyoxyethylene-sorbitan monostearate, polyoxyethylene-sorbitan tristearate, polyoxyethylene-sorbitan monooleate and polyoxyethylene-sorbitan trioleate.

30 (new). The emulsion of claim 27, wherein said surfactant is a food-grade surfactant.

31 (new). The emulsion of claim 27, wherein said oil-in-water emulsion includes a food-grade vegetable oil.

32 (new). The emulsion of claim 31, wherein said food-grade vegetable oil is corn oil.

33 (new). A reactive system comprising, an oil, water and surfactant emulsion, said emulsion further including zero-valent metal particle reactants.

34 (new). The reactive system of claim 33, wherein said zero-valent metal particle reactants are zero-valent iron particles.

35 (new). The reactive system of claim 33, wherein said emulsion includes a surfactant selected from the group consisting of sodium sulfocinate, sorbitan sesquioleate, sorbitan monooleate, sorbitan trioleate, sodium dodecylbenzene sulfonate, sodium naphthalene sulfonate, sodium lauryl sulfate, sorbitan monostearate, polyoxyethylene-sorbitan monostearate, polyoxyethylene-sorbitan tristearate, polyoxyethylene-sorbitan monooleate and polyoxyethylene-sorbitan trioleate.

36 (new). The reactive system of claim 33, wherein said emulsion includes a food-grade surfactant.

37 (new). The reactive system of claim 33, wherein said emulsion includes a food-grade vegetable oil.

38 (new). The reactive system of claim 37, wherein said food-grade vegetable oil is corn oil.